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HUBBELL
Wiring Device-Kellems

PEP stations

PEP stations®
LEADING THE CHARGE®

PS2000 INSTALLATION INSTRUCTIONS FOR ELECTRICAL CONTRACTORS

PS2000

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Toll free (800) 288-6000 or www.hubbell-wiring.com

Rev. 4.1--12.12.13

PS2000 Installation Instructions

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING- When using electrical products, basic precautions should always be followed including the following:

- Read all the instructions before using this product
- This device should be supervised when used around children
- Do not put fingers into the electric vehicle conductor
- Do not use this product if the flexible power cord or EV cable are frayed, have broken insulation, or other signs of damage.
- Do not use the PEP Station PS2000 if the enclosure or the EV connector is broken, cracked, open or shows any other indication of damage.
- Do not operate the PEP Station PS2000 in temperatures outside the operating range of -22°F to 131°F (-30°C to 55°C)
- The wiring and concrete pedestal or wall mounting bracket must be installed by a certified electrician and must comply with local electrical codes and ordinances.
- Do not install the PEP Station PS2000 near flammable, explosive or combustible materials.

WARNING- To reduce the risk of fire or electric shock, do not remove the rear panel. No user serviceable parts are inside. Repair should only be done by Customer Service Engineers.

RISK OF ELECTRIC SHOCK

IMPORTANT- These Installation Instructions must be strictly adhered to.

The specifications, instructions and other information in this manual are subject to revision at any time without prior notice.

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PS2000 Installation Instructions

1.0 Introduction & Overview

1.1 Product overview

PEP Stations meet all National Electric Code and National Fire Protection Association requirements for electric vehicle (EV) charging stations and comply with all relevant UL standards.

Each PEP Station is a dual Level 2(208-240V/30A) commercial charging station that charges two plug-in electric vehicles simultaneously.
Each PEP Station has a touch screen user-interface which guides the electric vehicle driver through a few simple steps to initiate charging. A built-in card reader allows each unit to be configured for either access cards or credit cards; the hourly rate being determined by the station's owner. Each PEP Station is networked to be centrally monitored and has communication capabilities to allow for system management functions for station owners, diagnostic reporting and software upgrades.

PEP Stations are distinctive in design and are easily identifiable by the stainless steel exterior and yellow coiled cords; they represent sustainable sites, innovation and a property owner's commitment to reducing emissions.

Figure 1

PS2000 Installation Instructions

1.2 Product specifications

Power Specifications

AC Power Output (maximum)	Level 2: 7.2kW (two dedicated circuits, 208/240V AC min. of 30A continuous)
AC Power Input	Level 2: 7.2kW (two dedicated circuits, 208V/240V AC @ 30A per charging circuit)
Input Power Connections	Single phase Line 1, Line 2 per circuit with common ground
Standby Power	20W
Recommended Panel Breaker	Double pole 40A max breaker on dedicated branch for each circuit
Energy Metering Accuracy	3% @ 2 minute intervals
Output Charging Connector	SAE J1772™ EV connectors on 18' max. extended length coiled cord

Safety and Operational Specifications

Safety Compliance	Complies with UL 2594, UL 2231, UL 1998, NFPA 70, NEC Article 625, ADA
Grounds Fault Detection	20mA CCID with auto retry (15 min delay, 4 tries)
Plug-Out Detection	Power terminated per SAE J1772 specification
Surge Protection	6 kV @ 3,000 A
EMI Compliance	FCC Part 15 Class A

Environmental Specifications

Enclosure Rating	NEMA 3R per NEMA 250-1997
Operating Humidity	Up to 100% over full operating temperature range
Operating Temperature	-22°F to 131°F (-30°C to 55°C) ambient temperature
Terminal Block Temperature Rating	212°F (100°C)

Functional Interfaces

LCD Screen Resolution	800 x 600 PIXELS
Screen Characteristics	8.0" diagonal touch screen, sunlight readable and fingerprint resistant
Vertical Viewing Angle	124° viewing angle
Horizontal Viewing Angle	120° viewing angle
Card Reader	ISO 7811 compliant

Network Specifications

Ethernet	10/100 Base-T Full Duplex Ethernet
Cellular	3G EVDO for Verizon
Network Communication Protocol	TCP/IP, IPv4/IPv6, DHCP Addressing
Network Security	HTTPS, SSL

Other Specifications

Approximate Shipping Weights	75 lbs for the component housing, 30 lbs for the installation kit
Component Housing Dimensions	9"x9"x24" plus front-mounted cord/connector assemblies
Reinforced Concrete Pedestal	12"x12"x29" above grade with 42" below grade, form provided
Wall Mounting Bracket	9"x11"x12" steel bracket, secured to approved wall with (4) 5/8" lag bolts

1.3 Electrical wiring requirements and information

PEP Stations require the following:

- **Two dedicated circuits of single phase 208/240VAC L-L power.**
  - **The left and right circuits must be in phase.**
  - **The L1-L1 and L2-L2 voltage must be equal to 0 volts AC.**
- **Each circuit must be connected to a 40 Amp circuit breaker.**
- All current carrying conductors between the circuit breaker and the PEP Station must be 8 AWG copper wires or lower.
- All high-voltage wiring must be installed in a 1 ¼" conduit (rigid or PVC).
- The CAT5e low-voltage Ethernet cable shall be gel-filled or rated for underground applications, have a maximum segment length of 100 meters and must installed in a ¾" conduit (rigid or PVC). If using cellular, there will be an additional 12V power supply wire that will also run in the ¾" conduit from the PEP Station.

Important:

- *A centrally located ground must be provided so that the line voltage to central ground does not exceed 150 Vrms .This type of connection must be used.*
- *Do not provide GFCI protection at the panel, this feature is built-in to the PEP Station.*
  In areas prone to frequent thunderstorms, install surge protection at the panel for both circuits.
- *Disconnect the power supply before performing any electrical work.*
- *Label wires from the breaker panel.*
- *The conduit sizes specified above must be maintained within the concrete base and where the conduit terminates for the wall mounting bracket.*

PS2000 Installation Instructions

Wiring for Stations with Single Phase Input and Hardwired Ethernet Connection

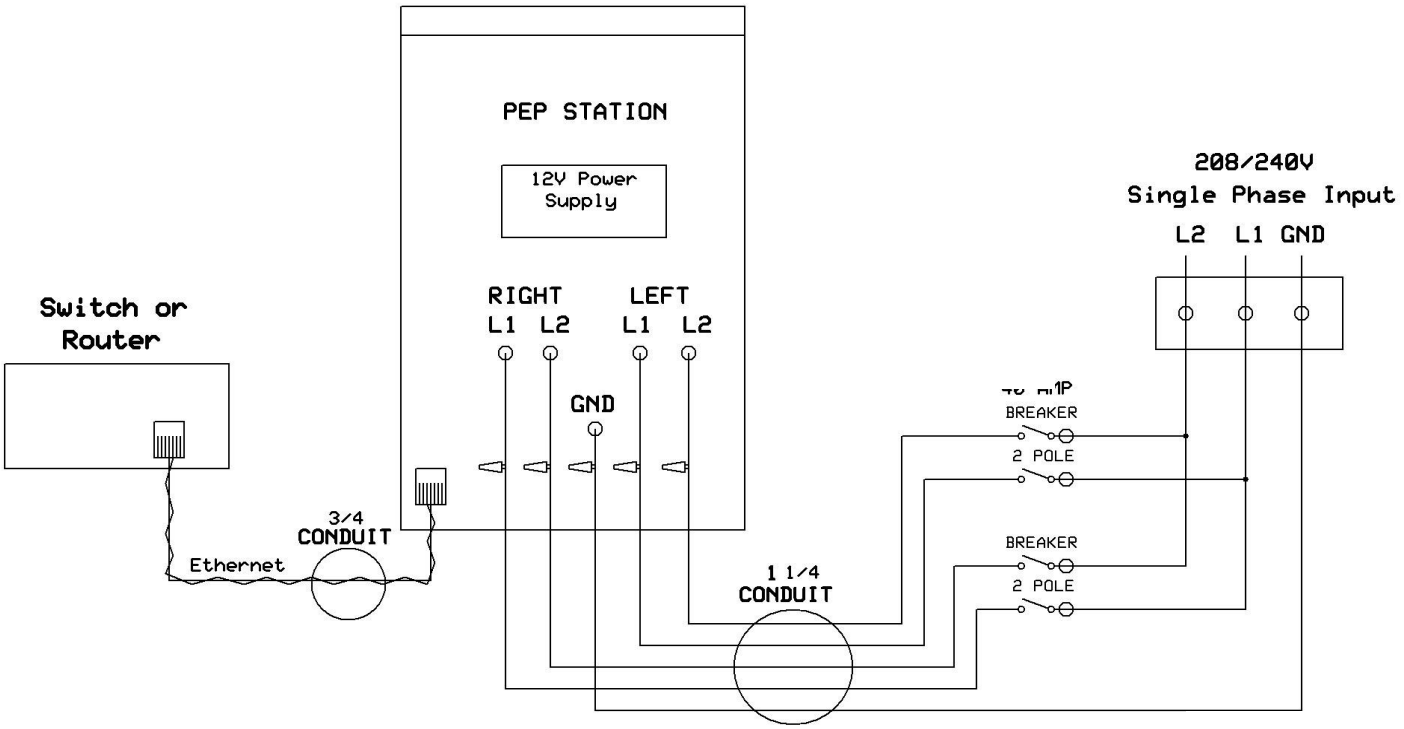


Figure 2

Wiring for Stations with Single Phase Input and Cellular/Wi-Fi Connection

Important: **Refer to the Cellular/Wi-Fi Router and Enclosure Installation Instructions for important additional information about the wiring and installation**

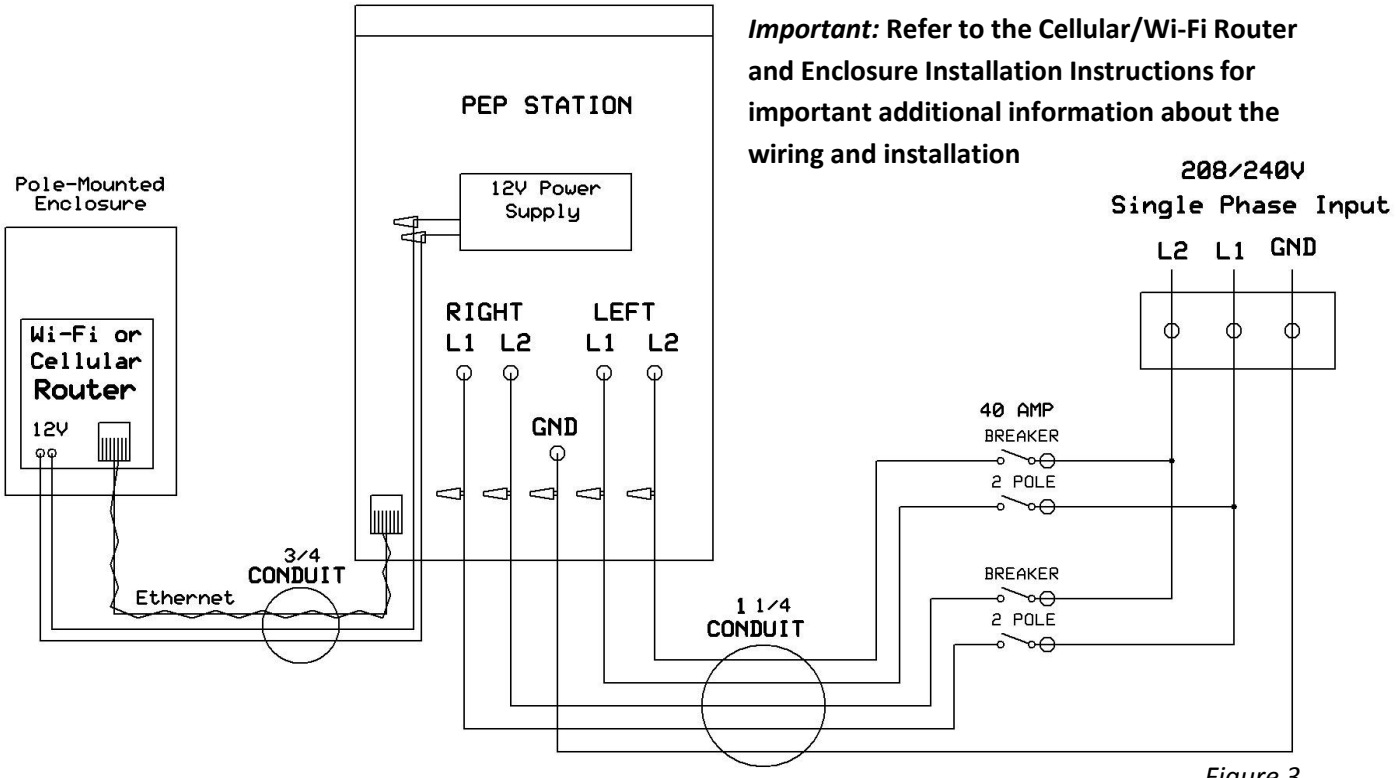


Figure 3

PS2000 Installation Instructions

Wiring for Stations with Three Phase Input and Hardwired Ethernet Connection

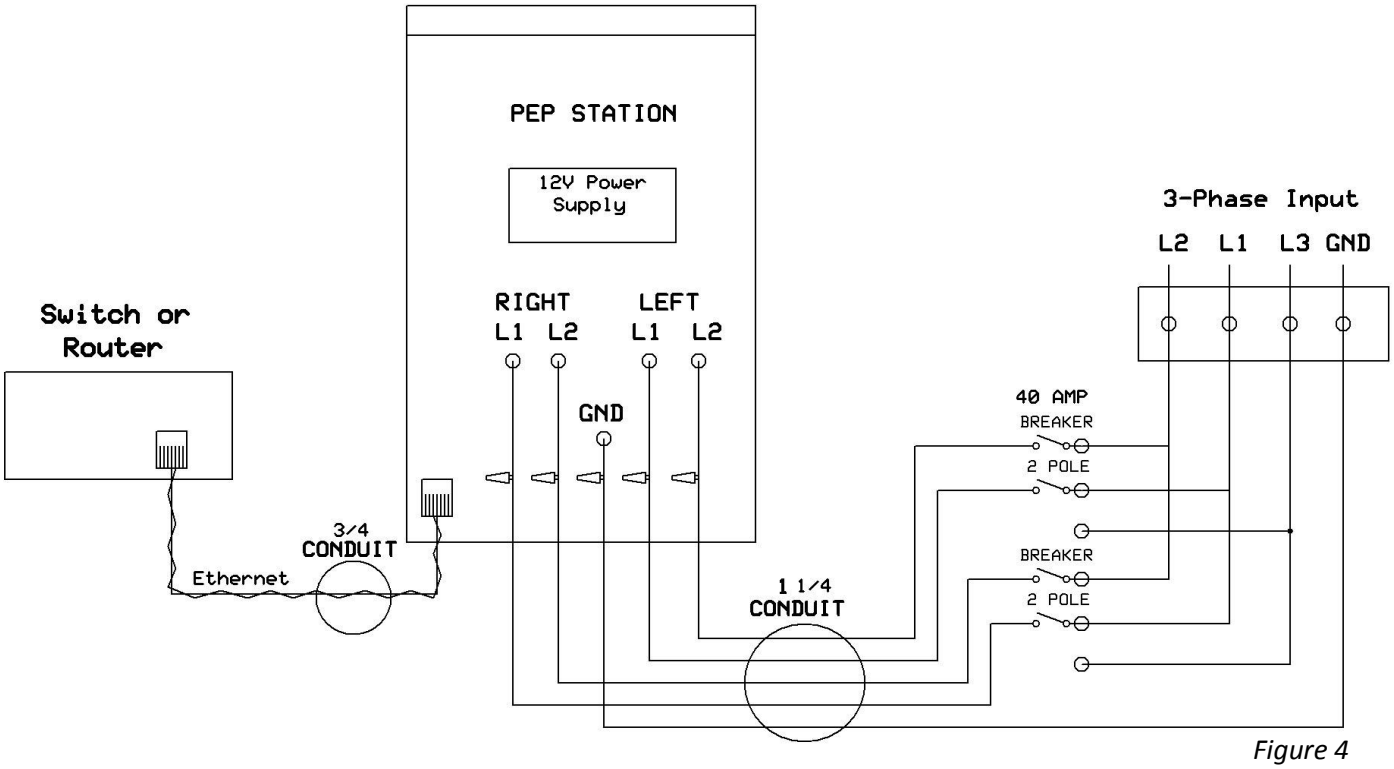


Figure 4

Wiring for Stations with Three Phase Input and Hardwired Cellular/Wi-Fi Connection

Important: **Refer to the Cellular/Wi-Fi Router and Enclosure Installation Instructions for important additional information about the wiring and installation**

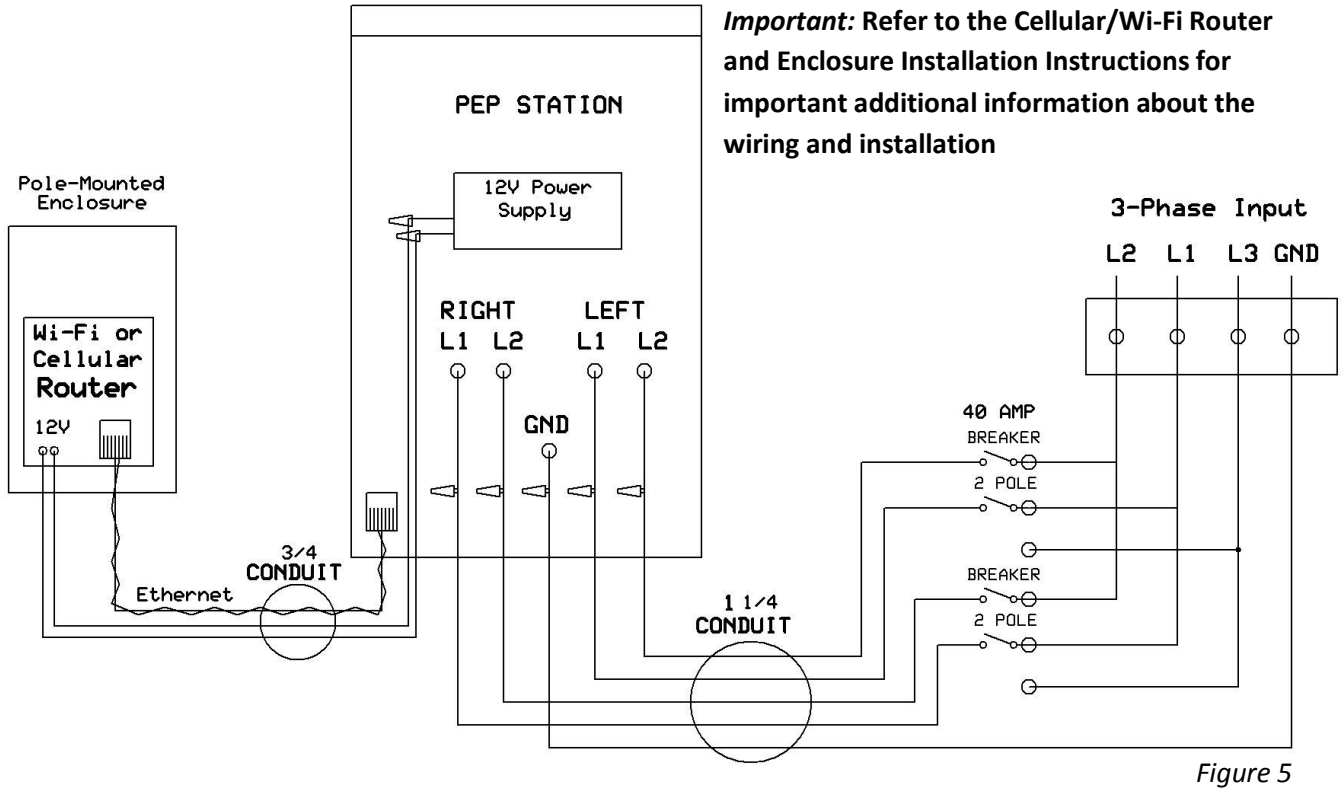


Figure 5

PS2000 Installation Instructions

2.0 Pedestal Mounted PEP Station Installation

2.1 Before you start

The following procedures must be completed before installing a pedestal mounted PEP Station:

- Secure a licensed electrician (additional sub contractors may be required for the concrete, site work, painting and installation of signage).
- The licensed electrician will secure permits and any necessary approvals from the local municipality.
- Verify that the concrete strength, bolt length and reinforcement meet local building codes.
- Verify that all of the listed components have been provided within the installation kit.

2.2 Component list

The following items are *supplied to the installer:*

- 8”x8”x 1/16” Steel mounting plate
- 12”x12” Square Sonotube concrete form
- 12”x12” Square tapered form
- (8) ½” Hex nuts
- (4) ½” Flat washers
- (4) ½” Locking washers
- (4) ½”x 6” J-Bolts.
- 1 Quart of Black Magic latex paint
- Sealing gasket
- (1) ¾” Conduit bushing
- (1) 1 ¼” Conduit bushing
- PEP Station component housing

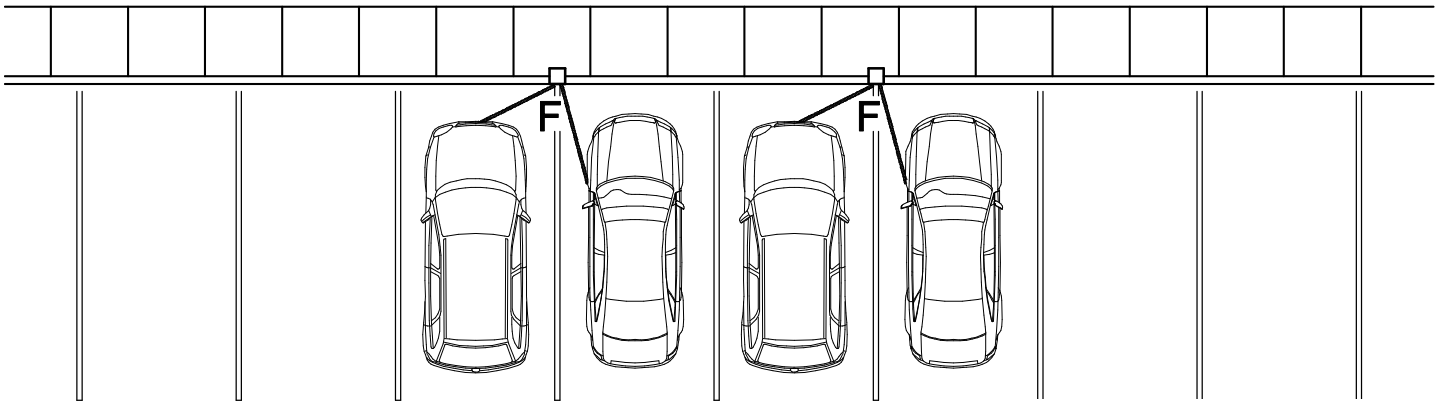
The following items are *provided by the installer:*

- 1 ¼” Conduit (rigid or PVC)
- ¾” conduit (rigid or PVC)
- Duct Seal or similar putty-like conduit sealer
- 3,000 psi concrete mixture*
- Black concrete pigment
- Wire. 8 AWG or lower and wire nuts
- CAT5e low-voltage Ethernet cable* and RJ45 connectors
- 9”x54” Prefabricated circular reinforcing cage Typically #4 bars*
- Loxon latex exterior concrete primer, A24W8300
- Green parking lot paint
- Electric vehicle signage
- Necessary tools and equipment

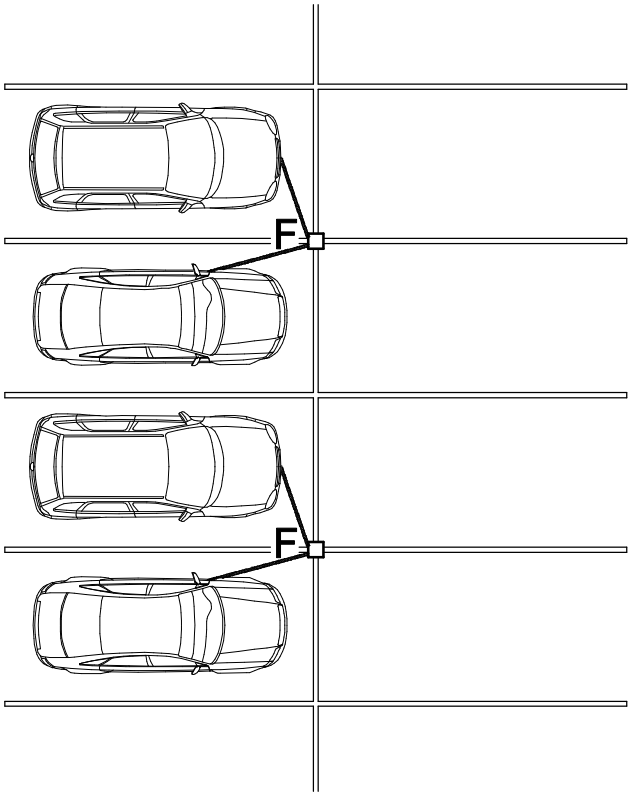
***Important:** *Material and specifications may vary depending on site characteristics and local building codes.*

2.3 Pedestal mounted PEP Station installation diagrams

The diagrams below in *Figure 6* indicate possible installation locations and orientation for PEP Stations within the parking lot. The letter 'F' indicates the front of the PEP Station component housing.



Important: **PEP Stations should be installed flush with the front edge of the curb and *do not* require protective bollards.**



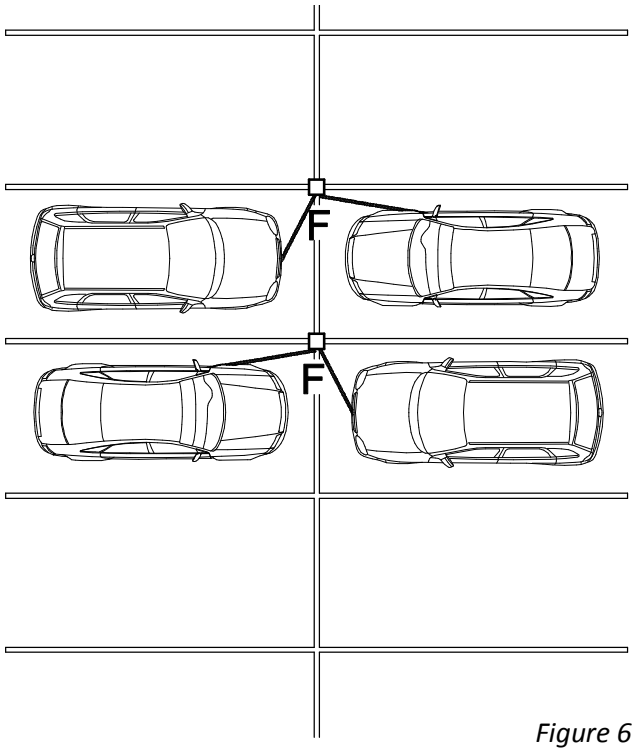


Figure 6

PS2000 Installation Instructions

Figure 7

Figure 8

The images above are examples of a finished PEP Station installations. The concrete base should be finished to this quality.

PS2000 Installation Instructions

2.4 Concrete pedestal installation process and checklist

The following set of instructions outlines the process for casting the concrete pedestal and installing the associated components. Some installations may deviate from this process due to site restraints and local codes. Any significant deviation from this process must be reported and approved by PEP Stations, LLC. This section does not include instructions on wiring.

Steps:

- ☐ 1. Excavate approximately an 18"diameter by 42" deep area for an earth formed footing and Sonotube concrete form.
- ☐ 2. Position the 9"x54" prefabricated circular reinforcing cage within the excavated area
- ☐ 3. Run the 1 ¼" and ¾" conduits through the reinforcing cage, see *Figure 10*.
- ☐ 4. Mix the first batch of concrete (3,000 psi or greater, no pigment necessary) and pour the earth formed footing from 42" below grade to 10" below grade, 32" total. The top of the earth formed footing should be 10" below finished grade.

  Important: **Do not allow the concrete footing to cure before pouring the concrete base in steps 8 through 11.**

Figure 9

- ☐ 5. Position the 38" Sonotube concrete form in the excavated area. The top of the Sonotube should be 28" above the surface that the user will stand on when operating the PEP Station. The bottom of the square insert should be approximately 1" below grade and bottom of the tube approximately 10" below finished grade. See *Figures 19 and 20* for details.
- ☐ 6. Backfill around the Sonotube form. Plumb and level the form.
- ☐ 7. Extend 1 ¼" conduit and ¾" conduit up through the center of the tube.

  Important: **The 1 ¼" conduit should be centrally located in the Sonotube. The ¾" conduit should be installed 2 ½" (center-to-center) to the RIGHT of the 1 ¼"conduit when looking at the base from the parking spots.**

Figure 10

Figure 11

PS2000 Installation Instructions

8. Mix another batch of concrete and add the black pigment. The ratio should be 1 ½ Lbs of pigment per 80Lbs of concrete.
9. Pour the black concrete base from the bottom of the Sonotube form (10" below grade) to the top of the Sonotube (28" above grade) vibrating frequently to relieve air bubbles.

   Important: **Hold the conduit and reinforcement in position as the concrete is poured and vibrated.**
10. Position the tapered form so that the bottom is flush with the top of the Sonotube and so that the top of the tapered form is at 29" above finished grade (1" above the top of the Sonotube). Level and set in place.
11. Pour the remaining black concrete to the top of the tapered form, vibrating frequently to evenly disperse the concrete in the corners and relieve air bubbles.
12. Position (4) ½"x6" J-Bolts in the (4) perimeter holes of the 8"x8"x1/16" steel mounting plate. Use (8) ½" hex nuts to tighten the bolts in the from the bottom. Install the (4) flat washers, (4) locking washers and (4) ½" hex nuts on the top side of the plate.

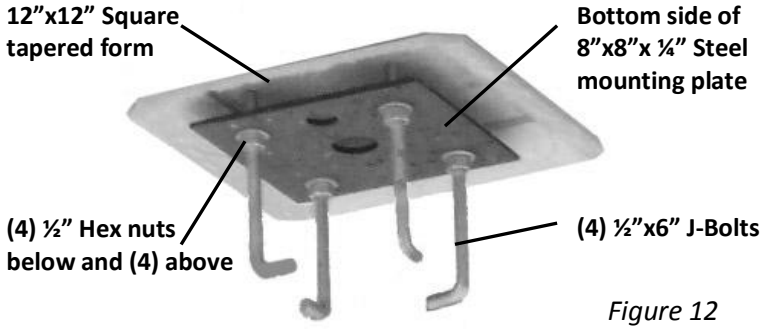


Figure 12

Important: **The threaded portion of the J-bolts should not rise more than 1 ¼" above the top of the steel mounting plate. Do not modify the steel mounting plate for any reason.**

13. Install the steel plate and J-Bolt assembly in the tapered form and level. The top of the plate should be flush with the top of the tapered form at 29" above grade.
14. Allow concrete to cure for 2-3 days.
15. Remove the Sonotube form, 12"x12" square tapered form and backfill around the base. Allow concrete to cure for an additional 2-3 days.

Figure 13

16. Cut the conduits so that they both rise 7/8"-1" above the top of the steel mounting plate.
17. Pass (6) 208/240V wires through the 1 ¼" conduit. Run the CAT5e Ethernet wire through the ¾" conduit and install RJ45 connector. For installations using a cellular or Wi-Fi connection, the 12V power supply wire needs to be included in the ¾" conduit from the station to router.

    Important: **Ethernet cabling should be CAT5e cable with a maximum segment length of 100 meters. The Ethernet cable shall be gel-filled or rated for outdoor applications.**

18. Perform a continuity test on the Ethernet wire to ensure connectivity before mounting the PEP Station. If an Internet connection is not available at the time of start-up the station will not become active.
19. Repair any concrete/asphalt around the perimeter of the base.

    Important: **If repairing an adjacent concrete sidewalk or parking area, install a continuous ¾" expansion joint and paper around the perimeter of the base.**
20. After the concrete has cured for at least 5 days, complete any finish work required to provide a smooth finished surface on all four sides of the base.
21. Prime the concrete base with a minimum of 2 coats of exterior latex concrete and masonry primer.
22. Allow primer to dry and paint the base using 1-quart of the Black Magic All Surface Enamel provided in the PEP Stations Installation Kit. Apply at least 2 coats.
23. Install the electric vehicle parking signage. Two signs per charging station are required, see *Figure 14*. This sign can be purchased at www.evsigns.com or by calling the Creative Retail Design Group at (866) 439-6233. *Figure 15* is an optional sign for the entrance to the facility parking lot. The signs should be installed at the same height and in a similar manner to existing handicap signage on the property.

    Important: **Some cities and municipalities may have standard signage for electric vehicle parking that will be required. Confirm that the signage specified herein is acceptable; otherwise install the signage specified by the local jurisdiction.**

    Important: **If connectivity is provided by the WC12000 cellular network a sign will be provided with the installation kit.**

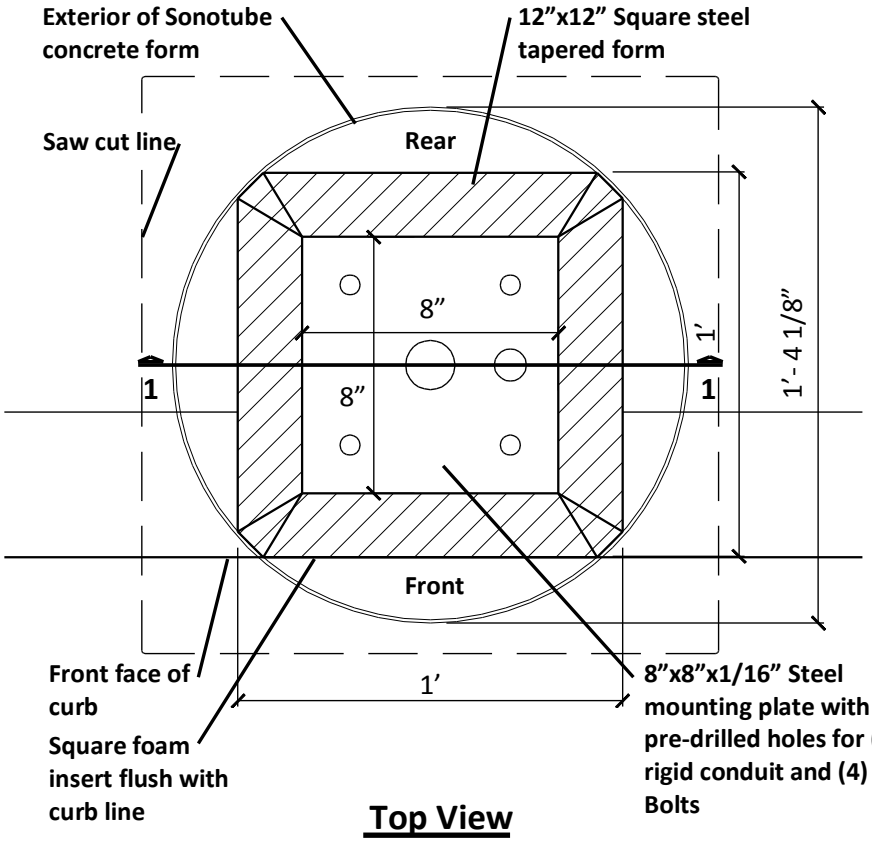
Figure 14

Figure 15

24. Paint parking lot striping and electric vehicle emblems. These colors, emblems and dimensions may need to be specified or approved by the local jurisdiction to maintain consistency with other installations.
25. Verify that all of the items above have been completed and that the site is clean and clear of all construction debris.

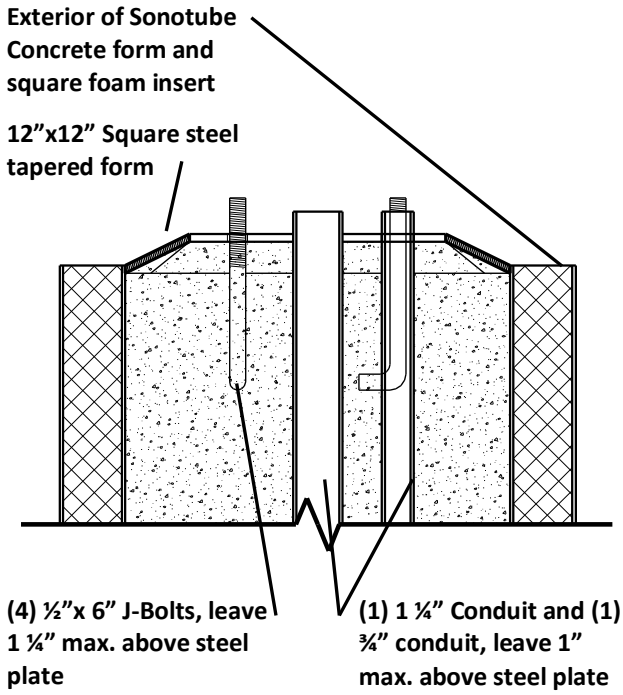
PS2000 Installation Instructions

2.5 Concrete pedestal installation diagrams



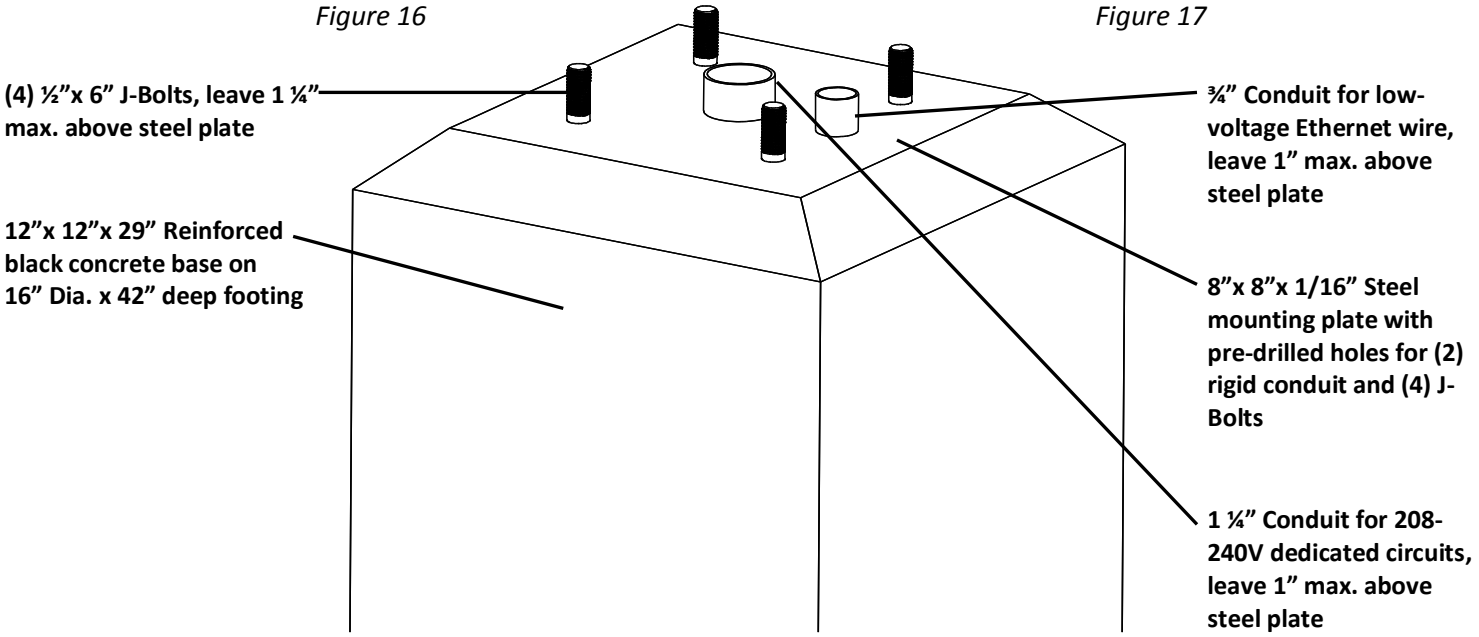
Top View

Figure 16


Exterior of Sonotube Concrete form and square foam insert
12”x12” Square steel tapered form
(4) ½”x 6” J-Bolts, leave 1 ¼” max. above steel plate
(1) 1 ¼” Conduit and (1) ¾” conduit, leave 1” max. above steel plate

Section 1-1

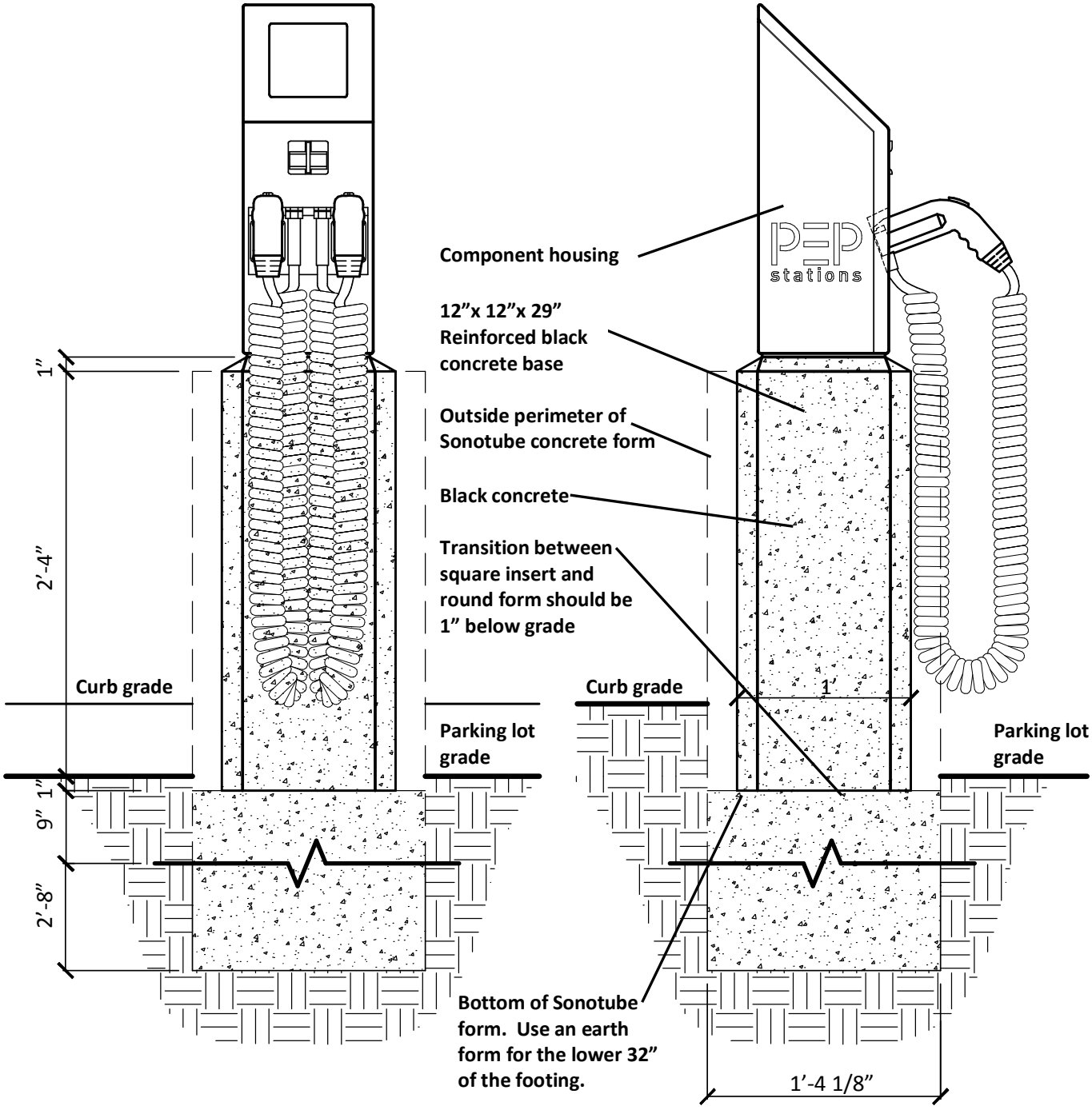
Figure 17


(4) ½”x 6” J-Bolts, leave 1 ¼” max. above steel plate
12”x 12”x 29” Reinforced black concrete base on 16” Dia. x 42” deep footing
¾” Conduit for low-voltage Ethernet wire, leave 1” max. above steel plate
8”x 8”x 1/16” Steel mounting plate with pre-drilled holes for (2) rigid conduit and (4) J-Bolts
1 ¼” Conduit for 208-240V dedicated circuits, leave 1” max. above steel plate

Isometric of Base

Figure 18

PS2000 Installation Instructions



Front View
Figure 19

Side View
Figure 20

2.6 Securing the component housing and wiring the PEP Station

The following set of instructions outlines the process for securing the PEP Station component housing to the concrete base and making wiring connections. This requires two people. See *Figure 21* which shows the rear of the enclosure. The sealing gasket is shown beneath the enclosure. The large and small conduit bushings, flat washers, locking washers, and nuts are shown inside the enclosure.

Steps:

1. Verify that there are (6) 208/240V wires through the 1 ¼" hole and (1) CAT5e Ethernet wire through the ¾" hole in the bottom of the enclosure. For installations using a cellular or Wi-Fi connection, the 12V power supply wire needs to be included in the ¾" conduit from the station to router.

   Important: **A common ground wire may be installed to the PEP Station reducing the wire count to (5).**

2. Remove any debris from the top of the steel mounting plate and set the sealing gasket in place.
3. Remove the rear cover of the PEP Station by unscrewing the T-25 tamper proof screws and sliding the rear cover off of the structural frame.
4. While one person holds the enclosure above the base, pass (6) 208/240V wires through the 1 ¼" hole in the bottom of the enclosure and pass the CAT5e Ethernet wire through the ¾" hole. For installations using a cellular or Wi-Fi connection, the 12V power supply wire needs to be included in the ¾" conduit from the station to router.

   Important: **Take extreme caution to not scratch any circuit boards or come in contact with any interior components when passing the wires through the enclosure.**

5. Place the PEP Station component housing on the pedestal allowing all four studs and two conduits to pass through the base of the enclosure.
6. Install (4) ½" flat washers, (4) ½" locking washers, and (4) ½-13 hex nuts and tighten securely.
7. Firmly press both conduit bushings onto the conduit stubs using a light adhesive to secure them into place.
8. Complete all electrical terminations at the whips from the terminal block. Refer to *Figures 2-5* on Page 6 and 7 for additional wiring information. The ground wires should terminate at the ground whips on the bottom plate of the enclosure. If only (1) ground is provided connect the ground to both whips.

   Important: **Each wire nut should be installed to 15 in-lbs of toque. At least two wraps of electrical tape are to be used on the wire nuts.**

9. For installations where the conduits run underground, use a putty-like sealing and caulking compound around the wires to seal the 1¼" and ¾" conduits from moisture. This product is commonly referred to as 'Duct Seal and is available in the electrical section of most hardware stores.
10. Plug the RJ45 Ethernet connector in to the receiving end on the single board computer.
11. Check that the (2) USB plugs into the USB receptacles on the single board computer.
12. Secure the 12 AWG ground wire from the bottom plate of the enclosure to the removable rear cover.
13. Replace the removable rear cover of the PEP Station and screw the T-25 tamper proof screws then continue to 4.0, Startup Procedure. Be careful that the ground wire does not get stuck in the rear enclosure.

PS2000 Installation Instructions

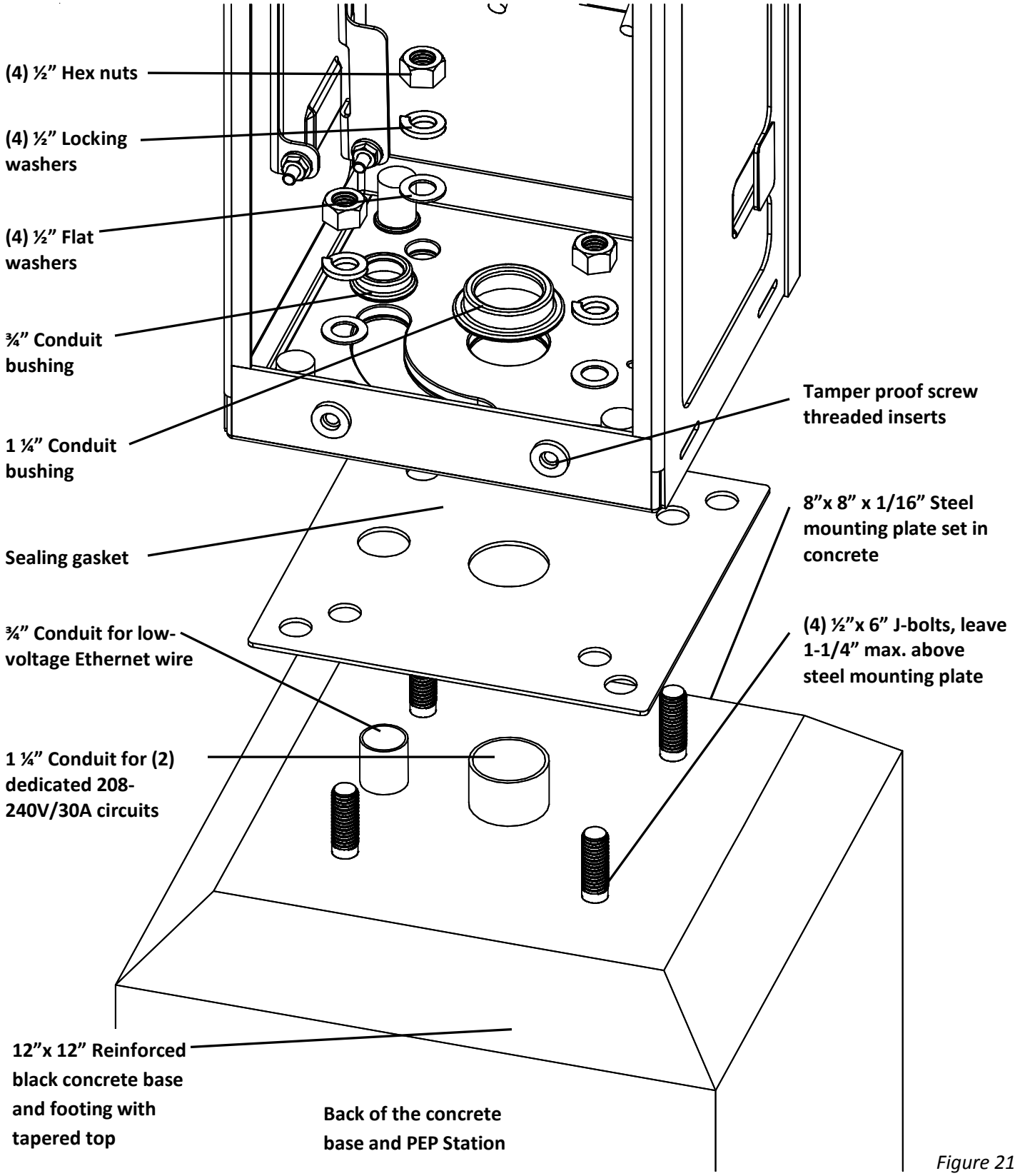

(4) ½" Hex nuts
(4) ½" Locking washers
(4) ½" Flat washers
¾" Conduit bushing
1 ¼" Conduit bushing
Sealing gasket
¾" Conduit for low-voltage Ethernet wire
1 ¼" Conduit for (2) dedicated 208-240V/30A circuits
12"x 12" Reinforced black concrete base and footing with tapered top
Back of the concrete base and PEP Station
Tamper proof screw threaded inserts
8"x 8" x 1/16" Steel mounting plate set in concrete
(4) ½"x 6" J-bolts, leave 1-1/4" max. above steel mounting plate

Figure 21

3.0 Wall Mounted PEP Station Installation

3.1 Before you start

The following procedures must be completed before installing a wall mounted PEP Station:

- Secure a licensed electrician (additional sub contractors may be required for the concrete, site work, painting and installation of signage).
- The licensed electrician will secure permits and any necessary approvals from the local municipality.
- Verify that the bolt length meets local building codes and that the mounting surface is a type listed in section 3.3 or equivalent.
- Verify that all of the listed components have been provided within the installation kit.

3.2 Component list

The following items are *supplied to the installer*:

- 9”x11”x12” Steel mounting bracket
- (4) ½” x 1 ½”-11 Bolts
- (4) ½” Flat washers
- (4) ½” Locking washers
- Sealing gasket
- PEP Station component housing

The following items are *supplied by the installer*:

- 1 ¼” Conduit (rigid or PVC)
- ¾” Conduit (rigid or PVC)
- Duct Seal or similar putty-like conduit sealer
- (4) 5/8”x5” Lag bolts and expansion anchors*
- Wire. 8 AWG or lower and wire nuts
- CAT5e low-voltage Ethernet cable* and RJ45 connectors
- Green parking lot paint
- Electric vehicle signage
- Necessary tools and equipment

***Important:** *Material and specifications may vary depending on site characteristics and local building codes.*

3.3 Wall mounting bracket installation process and checklist

The following set of instructions outlines the process for installing the wall mounting bracket and the associated components. This section does not include instructions on installing any wiring.

Steps:

1. Install the steel wall mounting bracket using (4) 5/8”x5” Lag bolts and expansion anchors* on the approved mounting surface. The horizontal PEP Station mounting surface should be located 29” above the finished floor as indicated in *Figure 26*. Approved wall mounting surfaces include, but are not limited to:
    - Concrete
    - Concrete Masonry Units
    - Brick
    - Structural steel member

    Important:** **Fastener length and thread type may vary depending on mounting surface and local building codes.

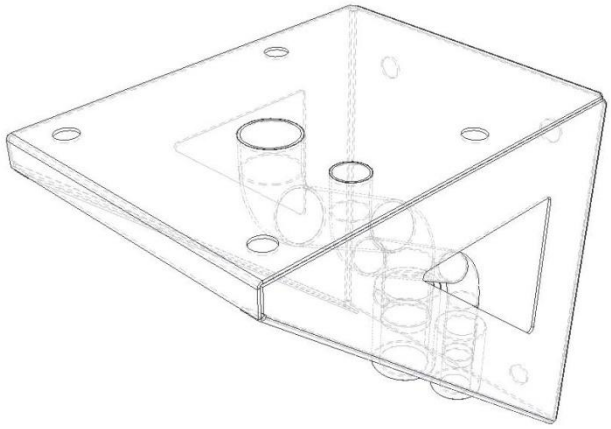


Figure 22

2. Run 1 ¼” and ¾” conduit through the bottom of the steel mounting bracket and terminate at the conduit stub sleeves.
3. Pass (6) 208/240V wires through the 1 ¼” conduit. Run the CAT5e Ethernet wire through the ¾” conduit and install the RJ45 connector. For installations using a cellular or Wi-Fi connection, the 12V power supply wire needs to be included in the ¾” conduit from the station to router.

    Important:** **Ethernet cabling should be CAT5e cable with a maximum segment length of 100 meters. The Ethernet cable shall be gel-filled or rated for outdoor applications.

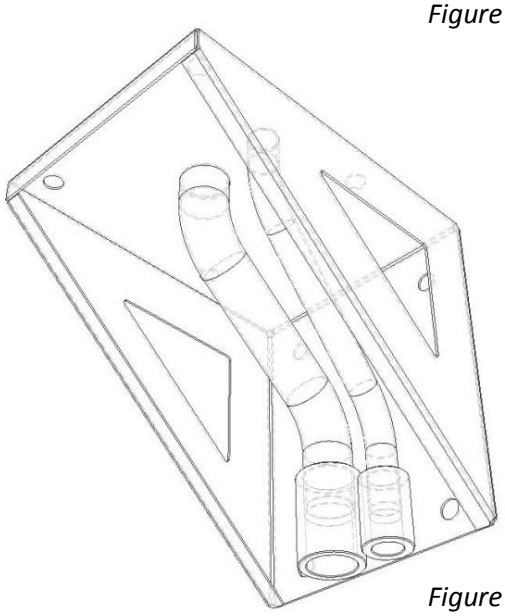


Figure 23

PS2000 Installation Instructions

4. Perform a continuity test on the CAT5e Ethernet wire to ensure connectivity before mounting the PEP Station. If an Internet connection is not available at the time of start-up the station will not become active.
5. Install the electric vehicle parking signage. Two signs per charging station are required, see *Figure 24*. This sign can be purchased at www.evsigns.com or by calling the Creative Retail Design Group at (866) 439-6233. *Figure 25* is an optional sign for the entrance to the facility parking lot. The signs should be installed at the same height and in a similar manner to existing handicap signage on the property.

   Important: **Some cities and municipalities may have standard signage for electric vehicle parking that will be required. Confirm that the signage specified herein is acceptable; otherwise install the signage specified by the local jurisdiction.**

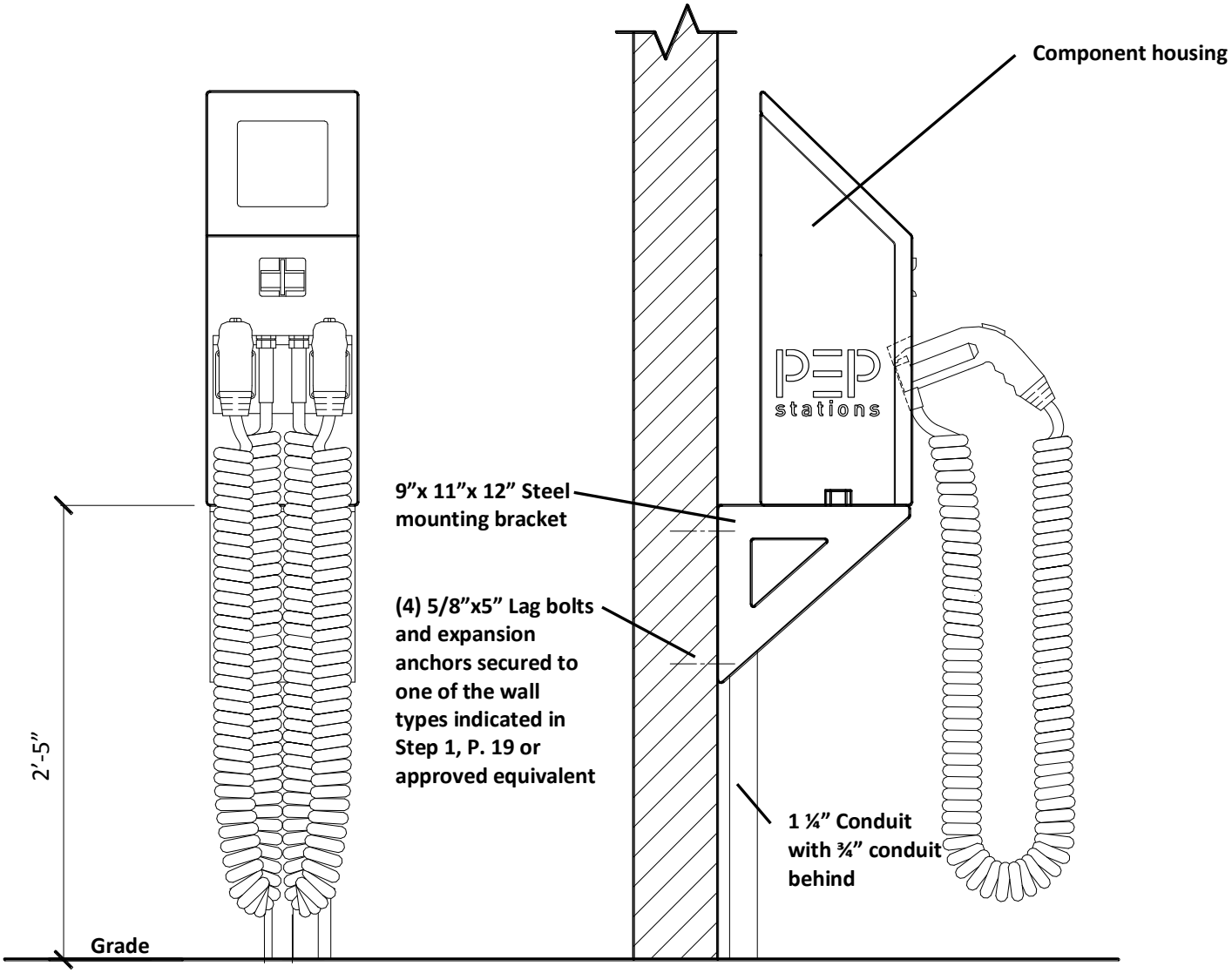
   Important: **If connectivity is provided by the WC12000 cellular network a sign will be provided with the installation kit.**

Figure 24

Figure 25

6. Paint parking lot striping and electric vehicle emblems. These colors, emblems and dimensions will most likely need to be specified by local jurisdiction to maintain consistency with other installations.
7. Verify that the all the items above have been completed and that the site clean and clear of all construction debris.

PS2000 Installation Instructions


Component housing
9”x 11”x 12” Steel mounting bracket
(4) 5/8”x5” Lag bolts and expansion anchors secured to one of the wall types indicated in Step 1, P. 19 or approved equivalent
1 ¼” Conduit with ¾” conduit behind
2’-5”
Grade
PEP stations

Front View
Figure 26

Side View
Figure 27

3.4 Securing the component housing and wiring the PEP Station

The following set of instructions outlines the process for securing the PEP Station component housing to the wall mount bracket. See *Figure 28* which shows the rear of the enclosure. The sealing gasket is shown beneath the enclosure. The large and small conduit bushings, flat washers, locking washers, and nuts are shown below the enclosure.

Steps:

- [ ] 1. Verify that there are (6) 208/240V wires through the 1 ¼" hole and (1) CAT5e Ethernet wire through the ¾" hole in the bottom of the enclosure. For installations using a cellular or Wi-Fi connection, the 12V power supply wire needs to be included in the ¾" conduit from the station to router.

   Important: **A common ground wire may be installed to the PEP Station reducing the wire count to (5).**

- [ ] 2. Remove any debris from the top of the steel mounting plate and set the sealing gasket in place.
- [ ] 3. Remove the rear cover of the PEP Station by unscrewing the T-25 tamper proof screws and sliding rear cover off of the structural frame.
- [ ] 4. While one person holds the enclosure above the bracket, pass (6) 208/240V wires through the 1 ¼" hole in the bottom of the enclosure and pass the CAT5e Ethernet wire through the ¾" hole. For installations using a cellular or Wi-Fi connection, the 12V power supply wire needs to be included in the ¾" conduit from the station to router.

   Important: **Take extreme caution to not scratch any circuit boards or come in contact with any interior components when passing the wires through the enclosure.**

- [ ] 5. Place the PEP Station component housing on the bracket. The front of the Component Housing shall be oriented 90^{o} clockwise as illustrated in *Figure 28*. Loosely install one ½" x 1 ½" bolt for stability.
- [ ] 6. Complete all electrical terminations at the whips from the terminal block. Refer to *Figure 2-5* on Page 6 and 7 for additional wiring information. The ground wires should terminate at the ground whips on the bottom plate of the enclosure. If only (1) ground is provided connect the ground to both whips.

   Important: **Each wire nut should be installed to 15 in-lbs of toque. At least two wraps of electrical tape are to be used on the wire nuts.**

   Important: There is a group of yellow, red and black wires with two connectors near the power supply. These are auxiliary and do not need to be plugged in.

- [ ] 7. For installations where the conduits run underground, use a putty-like sealing and caulking compound around the wires to seal the 1¼" and ¾" conduits from moisture. This product is commonly referred to as 'Duct Seal and is available in the electrical section of most hardware stores.
- [ ] 8. Plug the RJ45 Ethernet connector in to the receiving end on the single board computer.
- [ ] 9. Check that the (2) USB plugs into the USB receptacles on the single board computer.
- [ ] 10. Secure the 12 AWG ground wire from the bottom plate of the enclosure to the rear panel.
- [ ] 11. Replace the removable rear cover of the PEP Station and screw the T-25 tamper proof screws.
- [ ] 12. Rotate the enclosure 90° counterclockwise so that the coiled cords are facing the parking spaces.
- [ ] 13. Install (4) ½" flat washers, (4) ½" locking washers, and (4) ½" x 1½" bolts from the bottom and tighten securely then continue to 4.0, Startup Procedure.

PS2000 Installation Instructions

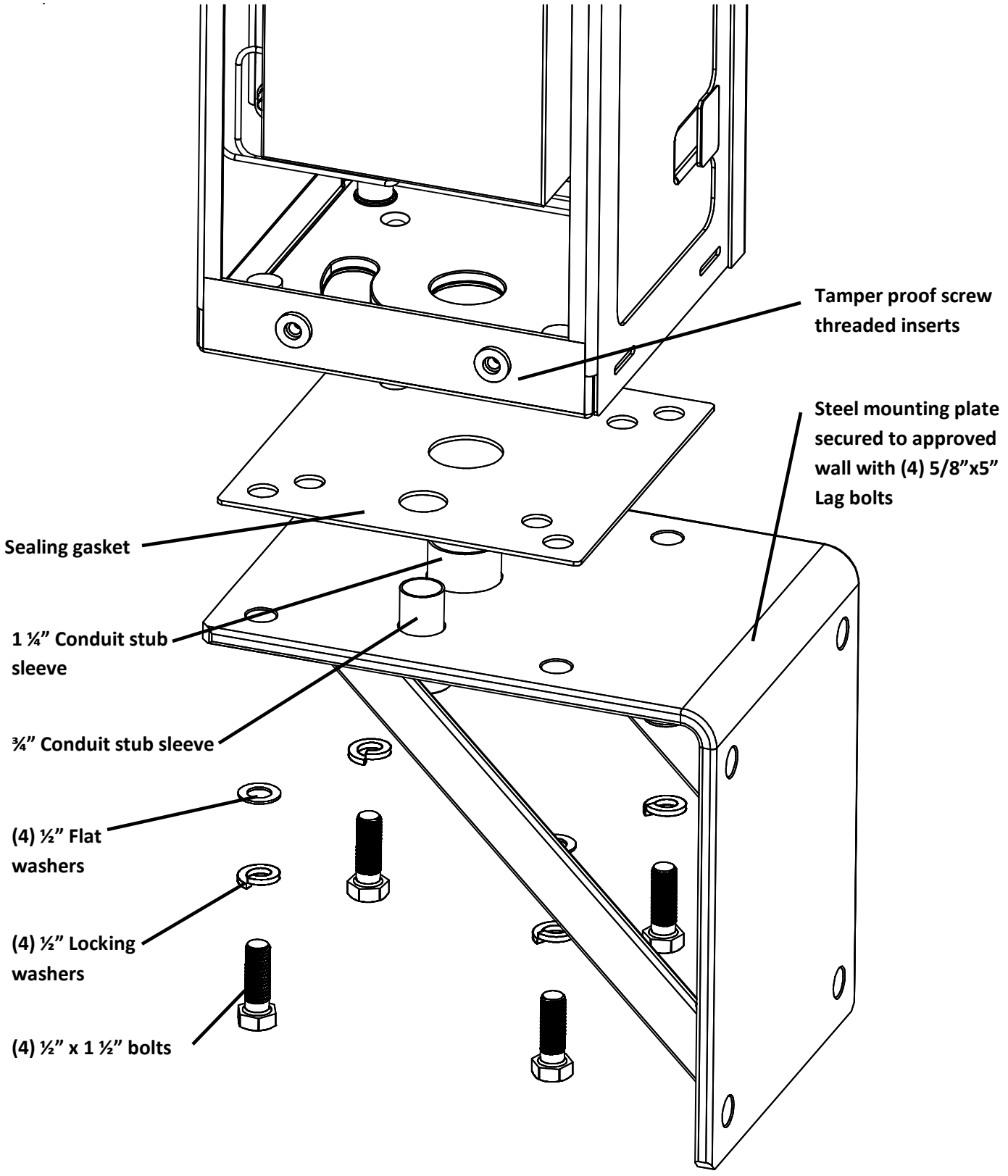

Tamper proof screw threaded inserts
Steel mounting plate secured to approved wall with (4) 5/8”x5” Lag bolts
Sealing gasket
1 ¼” Conduit stub sleeve
¾” Conduit stub sleeve
(4) ½” Flat washers
(4) ½” Locking washers
(4) ½” x 1 ½” bolts

Figure 28

4.0 Startup Procedure

The following set of instructions outlines the process to startup the PEP Station.

Steps:

1. Activate power to both circuits of the PEP Station.
2. The unit will begin starting up automatically. This process will look similar to the start up procedure for any PC. After about 4-5 minutes have elapsed, verify that the screen shown below in *Figure 29* is displayed.

   Important: **When the PEP Station is going through its initial startup, do not touch the screen or attempt to open/close any programs or applications. It is programmed to launch the program automatically.**

3. Contact the service and technical support help desk at (888) 760-0140 x114 to verify that the PEP Station is communicating over the internet.

   Important: **This must be completed and a connection verified by PEP Stations corporate office.**

4. The station owner will have to complete the on-line registration, assign site administrator(s) and configure the station via a step-by-step set up process at www.pepstations.com before the PEP station will become available for vehicle charging.

Figure 29